

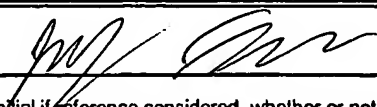


SHEET 1 OF 15

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 4764-32	SERIAL NO. 10/713,640
	APPLICANT HACKL et al.	
	FILING DATE November 13, 2003	GROUP ART


## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
JF	1.	496,951	5/9/1893	Parkes			
	2.	1,627,582	05/10/27	Terry			
	3.	3,524,724	08/18/70	R.L. Every et al.	23	115	
	4.	3,902,896	09/02/75	Borbely et al.	75	109	
	5.	4,070,182	01/24/78	Genik-Sas-Berezowsky et al.	75	103	
	6.	4,269,622	05/26/81	Kerley, Jr.	75	103	
	7.	4,289,532	09/15/81	Matson et al.	75	105	
	8.	4,296,075	10/20/81	Yan	423	7	
	9.	4,304,644	12/08/81	Victorovich et al.	204	108	
	10.	4,369,061	01/18/83	Kerley et al.	75	103	
	11.	4,384,889	5/24/83	Wiewiorowski et al.	75	101	
	12.	4,489,984	12/25/84	Savins	299	5	
	13.	4,510,027	04/09/85	Wiewiorowski et al.	204	110	
	14.	4,552,589	11/12/85	Mason et al.	75	105	
	15.	4,571,264	02/18/86	Weir et al.	75	744	
	16.	4,585,561	04/29/86	Zlokamik et al.	75	713	
	17.	4,605,439	08/12/86	Weir	75	744	
	18.	4,632,701	12/30/86	Genik-Sas-Berezowsky et al.	75	118	
	19.	4,634,187	01/06/87	Huff et al.	299	4	
	20.	4,654,078	03/31/87	Perez et al.	75	118	
	21.	4,654,079	03/31/87	Nunez et al.	423	29	

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22.	4,723,998	02/09/88	O'Neil	75	101	
23.	4,738,718	04/19/88	Bakshani et al.	75	105	
24.	4,740,243	04/26/88	Krebs-Yuill et al.	75	101 R	
25.	4,765,827	08/23/88	Clough et al.	75	2	
26.	4,778,519	10/18/88	Pesic	75	118	
27.	4,801,329	01/31/89	Clough et al.	75	97	
28.	4,816,234	03/28/89	Brison et al.	423	29	
29.	4,816,235	03/28/89	Pesic	423	32	
30.	4,902,345	02/20/90	Ball et al.	75	118	
31.	4,913,730	04/03/90	Deschenes et al.	75	370	
32.	4,923,510	05/08/90	Ramadorai et al.	423	29	
33.	4,925,485	05/15/90	Schulze	423	22	
34.	5,071,477	12/10/91	Thomas et al.	75	744	
35.	5,114,687	05/19/92	Han et al.	423	32	
36.	5,127,942	07/07/92	Brierley et al.	75	743	
37.	5,147,617	09/15/92	Touro et al.	423	27	
38.	5,147,618	09/15/92	Touro et al.	423	27	
39.	5,215,575	06/1/93	Butler	75	744	
40.	5,236,492	08/17/93	Shaw et al.	75	744	
41.	5,244,493	09/14/93	Brierley et al.	75	743	
42.	5,308,381	5/3/1994	Han et al.	75	744	
43.	5,338,338	08/19/97	Kohr	75	711	
44.	5,354,359	10/11/94	Wan et al.	75	744	
45.	5,364,453	11/15/94	Kohr	75	711	
46.	5,405,430	04/11/95	Groves et al.	75	744	

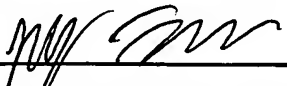
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JF	47.	5,443,621	08/22/95	Kohr	75	711	
	48.	5,489,326	02/06/96	Thomas et al.	75	744	
	49.	5,536,297	07/16/96	Marchbank et al.	75	736	
	50.	5,536,480	07/16/96	Simmons	423	28	
	51.	5,626,647	05/06/97	Kohr	75	744	
	52.	5,785,736	07/28/98	Thomas et al.	75	736	
	53.	5,876,588	03/02/99	Lalancette et al.	205	560	
	54.	5,939,034	08/17/99	Virmig et al.	423	24	
	55.	6,197,214	03/06/01	Virmig et al.	252	184	
	56.	6,344,068	02/05/02	Fleming et al.	75	736	
	57.	6,451,275	09/17/02	Fleming	423	47	
	58.	2002-0092377 A1	07/18/02	Ji et al.	075	744	05/11/01
V	59.	2004-0035252 A1	02/26/04	Ji et al.	075	722	05/27/03

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
JF	60.	WO 91/11539	08/08/91	PCT	C22B	3/42	X	
	61.	WO 94/06944	03/31/94	PCT	C22B	11/04	X	
	62.	WO 95/04164	02/09/95	PCT	C22B	3/00	X	
	63.	WO 01/23626	04/05/01	PCT	C22B	3/42	X	
	64.	WO 01/42519	06/14/01	PCT	C22B	3/04	X	
V	65.	WO 01/088212	11/22/01	PCT	C22B	11/00	X	


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JF	66.	WO 02/27045 A1	04/04/02	PCT	C22B	3/02	X	
	67.	EP 0 316 094 A2	05/17/89	EPO	C22B	11/04	X	
	68.	EP 0 522 978 A1	01/13/93	EPO	C22B	3/18	X	
	69.	AU 199918525 A1	09/16/99	Australia	C22B	003/02	X	
	70.	AU 200131355 A1	10/11/01	Australia	B01J	039/04	X	
	71.	AU 574818	06/05/86	Australia	C22B	011/04	X	
	72.	JP 60208434	10/21/1985	Japan (Abstract Attached)	C22B	011/04		X
	73.	JP 61127833	6/16/1986	Japan (Abstract Attached)	C22B	011/04		X
	74.	JP 61127834	6/16/1984	Japan (Abstract Attached)	C22B	011/04		X
	75.	RO 81261	2/1/1983	Romania (Abstract Only)	C22B	011/04		x
	76.	ZA 770840	1/24/1978	South Africa			X	
	77.	SU 1284942 A1	12/03/84	USSR (Abstract Attached)				X
	78.	SU 1279954 A1	04/08/85	USSR (Abstract Attached)				X
	79.	GB 1423342	02/04/76	United Kingdom	C08G	65/32	X	
	80.	GB 2180829	4/8/1987	United Kingdom	C22B	11/04	X	
	81.	GB 2310424	8/27/1997	United Kingdom	C22B	3/14	X	
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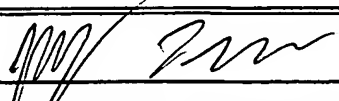
## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

JF	82.	ABBRUZZESE, C. et al.; "Thiosulphate Leaching for Gold Hydrometallurgy." <u>Hydrometallurgy</u> , Vol. 39 (1995), pp. 265-276.
	83.	ABBRUZZESE, C. et al.; "Nuove Prospettive Per Il Recupero Dell'oro Dai Mineralia: La Lisciviazione Con Tiosolfata," <u>l'industria mineraria</u> , No. 4 (1994), pp. 10-14.
	84.	ABLIMT, Ablet et al.; "Study on Intensified Leaching of Gold with Thiosulfate," <u>Xinqiang Res. Inst. of Chemistry, PRC</u> , Vol. 20 (1) (1999), pp. 39-41.
↓	85.	AGADZHANYAN et al.; "Kinetics of Ion Exchange in Selective Systems. II. Kinetics of the Exchange of Differently charged Ions in a Macroporous ion Exchanger"; Published in the Russian Journal of Physical Chemistry, 61(7): 1987; pps. 994-997.

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7F	86.	ATLURI et al.; "Recovery of Silver from Ammoniacal Thiosulfate Solutions"; Published In Proceedings of a Symposium on Precious and Rare Metals held in Albuquerque, NM; April 6-8, 1988, pp. 290-305.
	87.	ATLURI, Vasudeva Prasad; "Recovery of Gold and Silver from Ammoniacal Thiosulfate Solutions Containing Copper by Resin ion Exchange Method"; A Thesis Submitted to the Faculty of the Department of Materials Science and Engineering at the University of Arizona, 1987, 219 pages.
	88.	ANZHANG, Mao et al.; "One-Step Leaching of Some Refractory Gold Concentrate Containing Arsenic and Theory Analysis," J. Cent. South Univ. Technol., Vol. 4, No. 2 (Nov. 1997).
	89.	AWADALLA, F.T. et al.; "Recovery of Gold from Thiourea, Thiocyanate, or Thiosulfate Solutions by Reduction-Precipitation with a Stabilized Form of Sodium Borohydride," Separation Science and Technology, Vol. 26, No. 9 (1991), pp. 1207-1228.
	90.	AYLMORE et al., "Thermodynamic Analysis of Gold Leaching by Ammoniacal Thiosulfate Using Eh/pH Speciation Diagrams"; Minerals & Metallurgical Processing, Vol. 8, No. 4, 11/ 2001; pp. 221-227.
	91.	BAGDASARYAN, K.A.; "A Study of Gold and Silver..." Izvestiia Vysshikh Uchebnykh Zavedenii Tsvetnaia Metallurgiya, Vol. 5, (1983), pp. 64-68.
	92.	BALASANIAN, Ion et al.; "Modeling A Process for Sodium Thiosulfate Production from Sulfite and Sulfur," Revista de Chimie, Vol 26, No. 6 (1975), pp. 475-79.
	93.	BARTELS, K.; "Chemical Abstract Index Compilation for Thiosalts and Related Compounds," CANMET Mineral Sciences Laboratories Report MRP/MSL 77-214 (TR) (Nov. 1978), pp. 1-5, A1-A17.
	94.	BENEDETTI, Marc and Boulegue; "Mechanism of Gold Transfer and Deposition in a Supergene Environment," Geochimica Et Cosmochimica Acta, Vol. 55 (1991), pp. 1539-1547.
	95.	BEREZOWSKY, R.M.G.S. et al.; "Recovery of Gold and Silver from Oxidation Leach Residues by Ammoniacal Thiosulphate Leaching," Paper presented at the 108 <sup>th</sup> AIME Annual Meeting, New Orleans, Louisiana, Feb. 18-22, 1979, pp. 1-18.
	96.	BHADURI, Rahul S.; "Lixiviation of Refractory Ores with Diethylamine or Ammonium Thiosulfate," A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Metallurgical Engineering, August 1987, University of Nevada, Reno.
	97.	BHAPPU, R.B.; "Status of Non-Cyanide Heap Leaching and Other Cyanide Substitutes," Session Papers: American Mining Congress, Vol. 1, April 24-28, 1988, Chicago, pp. 275-287.
	98.	BLOCK-BOLTEN, Andrew et al.; "New Possibilities in the Extraction of Gold and Silver from Zinc and Lead Sulfide Flotation Wastes," TMS-AIME Fall Extractive Meeting, 1985, held in San Diego, CA; pp. 149-166.
	99.	BLOCK-BOLTEN, Andrew et al.; "Gold and Silver Extraction from Complex Sulfide Wastes;" Recycle and Secondary Recovery of Metals: Proceedings of the Int'l. Symposium on Recycle and Secondary Recovery of Metals and the Fall Extractive and Process Metallurgy Meeting, 1985, pp. 715-726.
✓	100.	BLOCK-BOLTEN, A. et al.; "Thiosulfate Leaching of Gold from Sulfide Wastes," Metall, Vol. 40, No. 7 (Jul. 1986), pp. 687-689.
	101.	BOURGE, Christian; "Thiosulfate may replace cyanide in leaching," American Metal Market, Vol. 107, No. 40 (Mar. 2, 1999), p. 6.

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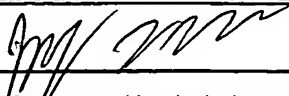
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JF	102.	BREUER, P.L. et al.; "Thiosulfate Leaching Kinetics of Gold in the Presence of Copper and Ammonia," <u>Minerals Engineering</u> , Vol. 15, No. 10-11 (2000), pp. 1071-1081.
	103.	BREUER, P.L. et al.; "Fundamental Aspects of the Gold Thiosulfate Leaching Process," presented at TMS Meeting, February 2001.
	104.	BREUER, Paul et al.; "An Electrochemical Study of Gold Oxidation in Solutions Containing Thiosulfate, Ammonia and Copper," Department of Chemical Engineering, Monash University, Australia.
	105.	BRIONES, R. et al.; "The Leaching of Silver Sulfide with the Thiosulfate-Ammonia-Cupric Ion System," <u>Hydrometallurgy</u> , Vol 20 (1998), pp. 243-260.
	106.	BYERLEY, J.J. et al.; "The Oxidation of Thiosulfate in Aqueous Ammonia by Copper (II) Oxygen Complexes," <u>Inorg. Nucl. Chem. Letters</u> , Vol. 9 (1973), pp. 879-883.
	107.	BYERLEY, John J. et al.; "Kinetics and Mechanism of the Oxidation of Thiosulphate Ions by Copper - (ii) Ions in Aqueous Ammonia Solution," (1973), pp. 889-894.
	108.	BYERLEY, John J. et al.; "Activation of Copper (II) Ammine Complexes by Molecular Oxygen for the Oxidation of Thiosulfate Ions," <u>Journal of Chemical Society. Dalton Transactions</u> (1975), pp. 1329-1338.
	109.	CALISTRU, C. et al.; "Modelling of the Production of Sodium Thiosulfate From Sulfite and Sulfur," <u>Revista de Chimie</u> , Vol. 25, No. 3 (1974), pp. 197-200.
	110.	CANEY, D.J.; "Thiosulfate shows leach promise - U.S. government study shows costs about the same as cyanide," <u>American Metal Market</u> , Vol. 102, No. 196 (Oct. 11, 1994), p. 7.
	111.	CAO, Changlin et al.; "Leaching Gold by Low Concentration Thiosulfate Solution," <u>Transactions of NFsac</u> , Vol. 2, No. 4 (Nov. 1992), pp. 21-25
	112.	CHANDA, M. et al.; "Ion-Exchange Sorption of Thiosulfate and Tetrathionate on Protonated Poly (4-Vinyl Pyridine)," <u>Reactive Polymers</u> , Vol. 2 (1984), pp. 269-278.
	113.	CHEN, Jin et al.; "Electrochemistry of Gold Leaching with Thiosulfate (I) Behaviour and Mechanism of Anodic Dissolution of Gold," <u>J. Cent. South Inst. Min. Metall.</u> , Vol. 24, No. 1 (April 1993) (Published in Chinese), pp. 169-173.
	114.	CHEN, Yougang et al.; "Production of Sodium Thiosulfate From Reduced Waste Liquor Containing Sodium Sulfide," <u>Chemical World</u> , Vol 31, No. 3 (1990), pp. 130-32.
	115.	COSANO, J.S. et al.; "Methods for Online Monitoring to be Implemented in an Ammonium Thiosulfate Production Plant," <u>Analytica Chimica Acta</u> , Vol 308, No. 1-3 (1995), pp. 187-96.
	116.	DANEHY, James P. et al.; "Iodometric Method for the Determination of Dithionite, Bisulfite, and Thiosulfate in the Presence of Each Other and Its Use in Following the Decomposition of Aqueous Solutions of Sodium Dithionite," <u>Analytical Chemistry</u> , Vol 46, No. 3 (1974), pp. 391-95.
↓	117.	DAS, Tomi Nath et al.; "Reduction Potentials of SO <sub>3</sub> .Bul-, SO <sub>5</sub> .Bul-, and S <sub>4</sub> O <sub>6</sub> .Bul.3- Radicals in Aqueous Solution," <u>The Journal of Physical Chemistry</u> , Vol 103, No. 18 (1999), pp. 3581-88.

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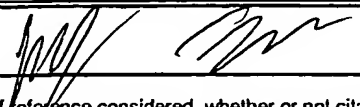
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JF	118.	de JONG, Govardus A.H. et al.; "Polythionate Degradation by tetrathionate hydrolase of <i>Thiobacillus ferrooxidans</i> ," <u>Microbiology</u> , Vol. 143 (1997), pp. 499-504.
	119.	DELIANG, Li et al.; "Studies on a United Non-Toxic Process to Recover Au/Cu from Complex Gold Ores Bearing Copper," <u>Journal of Xiangtan Mining Institute</u> , Vol. 14, No. 2 (1999), pp. 50-54.
	120.	DHAWALE, S.W.; "Thiosulfate: An Interesting Sulfur Oxoanion That Is Useful in Both Medicine and Industry—But Is Implicated in Corrosion," <u>Journal of Chemical Education</u> , Vol. 70, No. 1 (Jan. 1993), pp. 12-14.
	121.	EGE, Guenes N. et al.; "PVP – A Practical Stabilizer for Technetium-99M-Sulfur Colloid," <u>Journal of Nuclear Medicine</u> , Vol. 11, No. 4 (1970), pp. 175-76.
	122.	FENG, D. et al.; "Elution of Ion Exchange Resins by Use of Ultrasonication," <u>Hydrometallurgy</u> , Vol. 55 (2000), pp. 201-212.
	123.	FENG, D. et al.; "Galvanic Interactions Between Sulphides and Manganese Dioxide in Thiosulphate Leaching of Gold Ores," Department of Chemical Engineering, The University of Melbourne, Victoria (undated).
	124.	FERRON, Cesar J. et al.; "Thiosulphate Leaching of Gold and Silver Ores: An Old Process Revisited"; Presented at 100 <sup>th</sup> CIM Annual General Meeting, held in Montreal, Quebec, Canada May 3-7, 1998.
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	132.	GALLAGHER, Neil Paul; "Interaction of Gold Cyanide, Thiocyanate, Thiosulfate, and Thiourea Complexes with Carbon Matrices," A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Metallurgical Engineering, May 1987, University of Nevada, Reno.
↓	133.	GELVES, G.A. et al.; "Recovering of Refractory Gold Using Ammonium Thiosulfate Solutions," <u>Clean Technology for the Mining Industry, Proceeding of the III International Conference on Clean Technologies for the Mining Industry held in Santiago, Chile, May 15-17, 1996</u> , pp. 477-487.

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JF	134.	GOLDHABER, Martin B.; "Experimental Study of Metastable Sulfur Oxyanion Formation During Pyrite Oxidation at pH 6-9 and 30°C," <u>American Journal of Science</u> , Vol. 283 (Mar. 1983), pp. 193-217.
I	135.	GONG, Qian et al.; "Treatment of Sulphide Gold Concentrate Containing Copper with Thiosulfate Solution," <u>Proceedings of Randol Gold Conference, Sacramento 1989</u> , pp. 131-135.
	136.	GONG, Qian et al.; "Treatment of Sulphide Gold Concentrate Containing Copper with Thiosulfate Solution" (published in Chinese), <u>Engineering Chemist</u> , Vol. 11, No. 2 (1990), pp. 145-151.
	137.	GONG, Qian et al.; "Kinetics of Gold Leaching from Sulfide Gold Concentrates with Thiosulfate Solution," <u>Transaction of Nfsoc</u> , Vol. 3, No. 4 (Nov. 1993), pp. 30-36
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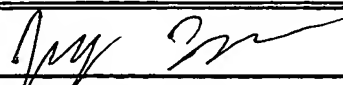
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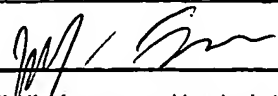
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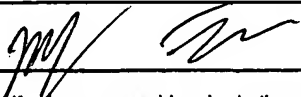
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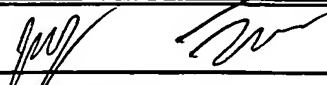
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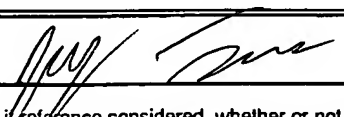
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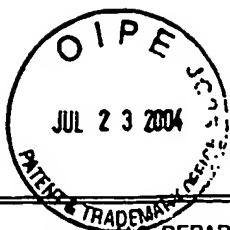
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SHEET 1 OF 3

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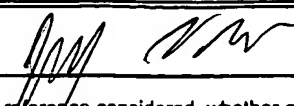
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	2.	4,980,134	12/25/90	Butler	423	27	
	3.	5,232,490	8/3/93	Bender et al.	75	733	
	4.	4,684,404	8/4/87	Kalocsai	75	118	

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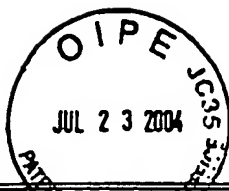
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SHEET 2 OF 3

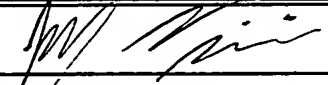
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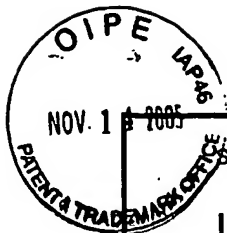
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<b>FORM PTO-1449</b> <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> 4764-32	<b>SERIAL NO.</b> 10/713,640
	<b>APPLICANT</b> HACKL et al.	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Sheet

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Application Number 10/713,640

Filing Date November 13, 2003

First Named Inventor Jinxing Ji

Art Unit 1754

Examiner Name

Attorney Docket Number 4764-32

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	7	PCT	-	WO 2005/017215 A1	02-24-2005		
	8	PCT	-	WO 2004/005556 A1	01-15-2004		
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First Named Inventor	Jinxing Ji
Art Unit	1754
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Examiner Signature		Date Considered	7-18-06
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**INFORMATION DISCLOSURE  
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Sheet

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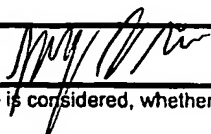
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JF	AA	Bartlett; "Metal Extraction from Ores by Heap Leaching"; <u>Metallurgical and Materials Transactions B</u> ; Volume 28B, August 1997; pps. 529-545.
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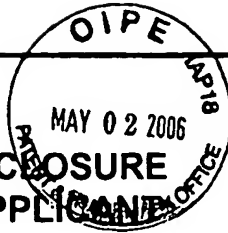
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Sheet 1 of 1

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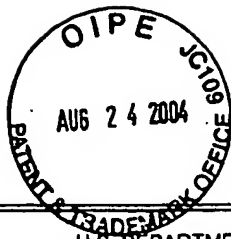
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JF	AB	UK Search and Examination Report (GB 0509741.5), dated 4/13/2006, in copending related application.

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## FOREIGN PATENT DOCUMENTS

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